



1

SEQUENCE LISTING

<110> SMYTHE, MARK LESLIE  
DOOLEY, MICHAEL JOHN  
ANDREWS, PETER RONALD

<120> PROTEIN ENGINEERING

<130> 065064-0135

<140> 09/830,011

<141> 2001-07-23

<150> PCT/AU99/00914

<151> 1999-10-21

<150> AU PP 6606

<151> 1998-10-21

<160> 26

<170> PatentIn Ver. 3.3

<210> 1

<211> 31

<212> PRT

<213> Leiurus quinquestriatus

<400> 1

Ala Phe Cys Asn Leu Arg Met Cys Gln Leu Ser Cys Arg Ser Leu Gly  
1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys His  
20 25 30

<210> 2

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 2

Ala Phe Cys Asn Leu Arg Lys Cys Gln Asp Lys Cys Glu Thr Phe Gly  
1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys  
20 25 30

<210> 3

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 3

Ala Phe Cys Asn Leu Asp Lys Cys Ser Thr Phe Cys Arg Ile Phe Gly  
1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys  
20 25 30

<210> 4

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 4

Ala Phe Cys Asn Leu Ser Lys Cys Ser Thr Phe Cys Arg Thr Leu Gly  
1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys  
20 25 30

<210> 5

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 5

Cys Arg Leu Tyr Lys Cys Gln Asp Glu Cys Arg Ile Leu Gly Leu Leu  
1 5 10 15

Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Gly  
20 25

<210> 6

<211> 17

<212> PRT

<213> Homo sapiens

<400> 6

Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val  
1 5 10 15

Gln

<210> 7  
 <211> 45  
 <212> PRT  
 <213> *Cerebratulus lacteus*

<400> 7  
 Ala Cys Glu Asn Asn Cys Arg Lys Lys Tyr Asp Leu Cys Ile Arg Cys  
   1                  5                  10                  15  
 Gln Gly Lys Trp Ala Gly Lys Arg Gly Lys Cys Ala Ala His Cys Ile  
           20                  25                  30  
 Ile Gln Lys Asn Asn Cys Lys Gly Lys Cys Lys Lys Glu  
           35                  40                  45

<210> 8  
 <211> 45  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
       peptide

<400> 8  
 Ala Cys Arg Lys Asp Cys Asp Lys Lys Glu Thr Phe Cys Ile Arg Cys  
   1                  5                  10                  15  
 Gln Gly Lys Phe Ala Gly Lys Asp Gly Asn Cys Ala Ala Arg Cys Ile  
           20                  25                  30  
 Arg Leu His Gln Leu Cys Phe Gly Lys Cys Ala Lys Glu  
           35                  40                  45

<210> 9  
 <211> 17  
 <212> PRT  
 <213> *Homo sapiens*

<400> 9  
 Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val  
   1                  5                  10                  15  
 Gln

<210> 10  
 <211> 16  
 <212> PRT  
 <213> *Homo sapiens*

<400> 10  
 Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp  
   1                  5                  10                  15

<210> 11  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 11  
 Phe Asn Met Gln Cys Gln Arg Arg Phe Tyr Glu Ala Leu His Asp Pro  
   1                  5                  10                  15  
 Asn Leu Asn Glu Glu Gln Arg Asn Ala Lys Ile Lys Ser Ile Arg Asp  
                   20                  25                  30

Asp Cys

<210> 12  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 12  
 Phe Asn Tyr Asp Cys Gln Lys Asp Phe Glu Glu Gly Leu Gln Thr Pro  
   1                  5                  10                  15  
 Gly Leu Asn Glu Glu Arg Arg Asn Asp Asn Ile Lys Leu Arg Arg Asp  
                   20                  25                  30

Arg Cys

<210> 13  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 13  
 Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly  
   1                  5                  10                  15

Ile Gln Thr

<210> 14  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 14  
 Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg  
 1 5 10 15  
 Ala His Arg Leu His  
 20

<210> 15  
 <211> 38  
 <212> PRT  
 <213> Euplotes raikovi

<400> 15  
 Asp Leu Cys Glu Gln Ser Ala Leu Gln Cys Asn Glu Gln Gly Cys His  
 1 5 10 15  
 Asn Phe Cys Ser Pro Glu Asp Lys Pro Gly Cys Leu Gly Met Val Trp  
 20 25 30

Asn Pro Glu Leu Cys Pro  
 35

<210> 16  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (28)  
 <223> Norleucine

<400> 16  
 Asp Leu Cys Glu Gln Gly Ala Leu Gln Cys Gly Glu Thr Phe Cys Arg  
 1 5 10 15  
 Ile Ala Cys Ser Pro Arg Asp Lys Asp Asn Cys Xaa Leu Arg Val His  
 20 25 30

Arg Pro Ala Leu Cys Ala  
 35

<210> 17  
 <211> 38  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD\_RES

<222> (28)

<223> Norleucine

<400> 17

Asp Leu Cys Glu Gln Gly Ala Leu Gln Cys Gly Ser Thr Phe Cys Arg  
1 5 10 15

Thr Ala Cys Ser Pro Arg Asp Lys Asp Asn Cys Xaa Leu Arg Val Asp  
20 25 30

Arg Pro Ala Leu Cys Ala  
35

<210> 18

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD\_RES

<222> (28)

<223> Norleucine

<400> 18

Asp Leu Cys Glu Gln Ser Ala Leu Gln Cys Asn Ser Thr Gly Cys Arg  
1 5 10 15

Thr Phe Cys Ser Pro Arg Asp Asx Asp Asn Cys Xaa Leu Arg Val Asp  
20 25 30

Arg Pro Ala Leu Cys Ala  
35

<210> 19

<211> 8

<212> PRT

<213> Homo sapiens

<400> 19

Val Glu Thr Phe Leu Arg Ile Val  
1 5

<210> 20  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 20  
 Ser Arg Leu Phe Asp Asn Ala Met Leu Arg Ala His Arg Leu  
 1 5 10

<210> 21  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 21  
 Thr Ile Ser Cys Thr Asn Pro Lys Gln Cys Tyr Pro His Cys Lys Lys  
 1 5 10 15

Glu Thr Gly Tyr Pro Asn Ala Lys Cys Met Asn Arg Lys Cys Lys Cys  
 20 25 30

Phe Gly Arg  
 35

<210> 22  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 22  
 Ser Cys Ser Asn Pro Lys Gln Cys Tyr Pro His Cys Lys Lys Glu Thr  
 1 5 10 15

Gly Tyr Pro Asn Ala Gly Cys Gln Gly Ser Phe Cys Thr Cys Lys Gly  
 20 25 30

<210> 23  
 <211> 31  
 <212> PRT  
 <213> Leiurus quinquestriatus

<400> 23  
 Ala Phe Cys Asn Leu Arg Met Cys Gln Leu Ser Cys Arg Ser Leu Gly  
 1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys His  
 20 25 30

<210> 24  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 24  
 Cys Asn Leu Ala Arg Cys Gln Leu Ser Cys Lys Ser Leu Gly Leu Lys  
           1                  5                  10                  15

Gly Gly Cys Gln Gly Ser Phe Cys Thr Cys Gly  
                   20                  25

<210> 25  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 25  
 Ile Leu Gly Asn Gln Gly Ser Phe Leu Thr Lys Gly Pro  
           1                  5                  10

<210> 26  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 26  
 Gly Ser Ser Gly  
           1